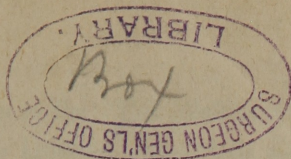


Shattuck (L.)



CONTRIBUTIONS

TO THE

Vital Statistics of the State of New-York:

BY LEMUEL SHATTUCK, Esq. OF BOSTON.

✓

CONTRIBUTIONS

TO THE

Board of Trustees of the State of New York

OF AGRICULTURE AND MECHANICS

IV. *Contributions to the Vital Statistics of the State of New-York.* By LEMUEL SHATTUCK Esq., of Boston.

[Communicated by T. Romeyn Beck, M. D.]

Boston, February 1, 1850.

T. ROMEYN BECK, M. D.

My Dear Sir—The official returns of the State censuses of 1825, 1835 and 1845, contain facts which throw some light upon the vital statistics of the State—a subject which is just now, from its important sanitary connections, attracting considerable attention. The facts to which I allude are those relating to the population, and to the births, marriages and deaths. To be available, however, for any practical purpose, it is necessary that they should be taken from the immense mass of figures which are piled up in the census volumes, and subjected to analysis, combination and deduction. Having occasion to examine them for a collateral purpose, it has occurred to me that the results of the examination might not be entirely without interest, as matters of reference at least, to the Medical Society; and if you deem them worthy of being presented, they are placed at your disposal.

The returns of the population are supposed to be generally correct, as far as they go; but those relating to the births, marriages and deaths, must be received with more caution. One fact only is at hand to test the accuracy of these returns. I am not aware that public registers have been kept in any place, except in the city of New-York, and there only of the deaths. These are presumed to be very nearly correct. A comparison of the City Inspector's reports, and the returns of the State enumerations will shew the following results:

	In 1825.	In 1835.	In 1845.
The City Inspector reports.....	5,021	7,082	10,983
The State census returns	3,239	5,925	6,293
Showing differences of	<u>1,782</u>	<u>1,157</u>	<u>4,690</u>

By this statement it appears that nearly twenty-five per cent. of the deaths at the first two periods, and more than that proportion in the last, escaped notice in the enumeration. Probably a similar defect was made in the returns of births and marriages. If so, twenty-five per cent. at least should be added to give their true numbers. It is presumed that less difficulty existed in the country towns, and that the returns from these are not so defective; yet they cannot be implicitly relied upon, and must be taken with some allowance of error.

The facts of the census are, however, deemed of sufficient importance to merit careful examination. It is not my intention now to go into a discussion of the subjects here embraced or suggested, but merely to refer those interested to the tables themselves, for their own illustration.

I. *Population.* Table I. exhibits, in parallel columns, the aggregate numbers of persons in each county, enumerated by the State in 1825, 1835 and 1845; and by the United States in 1820, 1830 and 1840. The former are taken from the official copies of the State census, and the latter from the official copies of the National census. This table will exhibit the comparative increase of the population, though the per centage of the increase has not been calculated. Several changes have taken place in the area of the counties during this period, annexing parts of one to another; and these should be accurately considered before an exact account of the increase can be ascertained. It is presumed that the correctness of these enumerations can be relied upon, though it seems to be difficult to account for all the changes that appear, except on the supposition that some errors were committed either in the State or the National census. The facts furnished by the State census are the only ones which have come under present examination, as they are the only ones which admit of the desired comparison. It is much to be regretted that the ages of the population were not taken in these enumerations, since they furnish a very important and an essential element of information in all matters relating to vital statistics. It is now conceded that no comparison of the number of persons out of whom one may be born or die annually can be made, as a test of the sanitary condition of different places, *without the ages of the living are known.* If the population are of the same ages in the different places which are to be compared together, the principle is a sound one; but if their ages differ from

each other, such a comparison will lead to error. Hence, the comparisons in the accompanying table, if they are allowed to be correct in other respects, must not be taken as strictly accurate; for it is presumed that there live in some counties a greater proportion of one age, than of the same age in another county.

The returns, however, furnish one characteristic of the population, that of the sexes, which is proper to be noticed in this connection. The number and proportion of each sex at the different enumerations for the whole State are as follows:

1825. Males, 822,897, as 50.91; or as 100. ; or as 103.69
 Females, 793,561 to 49.09 to 96.43 to 100.

<u>1,616,458</u>	<u>100.00</u>
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1835. Males, 1,102,658; as 50.71; or as 100. ; or as 102.87
 Females, 1,071,859 to 49.29 to 97.11 to 100.

<u>2,174,517</u>	<u>100.00</u>
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1845. Males, 1,311,342; as 50.35; or as 100. ; or as 101.40
 Females, 1,293,153 to 49.65 to 98.61 to 100.

<u>2,604,495</u>	<u>100.00</u>
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The difference between the sexes was 1.82 per cent. in 1825; 1.42 per cent. in 1835; and .70 per cent. in 1845; showing a nearer approximation to equality in the last than in the first period.

II. *Density of the Population.* Table II. gives the area in square miles and square acres of each county, compiled from Holley's State Register; and the population to the square mile calculated for each enumeration. This area is, however, for 1845, and an allowance should be made for previous dates in those counties where the area has been changed. It affords interesting results worthy of consideration. New-York, containing 16,873.7 persons to the square mile in 1845, is of course the most densely populated county in the State. Hamilton, containing 1.7 persons to the square mile, is the least so. It would be a valuable addition to this information, if the areas of the wards in cities were known, and the comparative density of the popu-

lation of such as were built upon exhibited. We should like to know the sanitary influence of such causes on the inhabitants of the most densely populated ward of the city of New-York.

III. *Births.* Table III. exhibits, in parallel columns, for each county, the aggregate returns of the births for the year 1825, 1835 and 1845; and for the same periods, the number of persons living to one birth, and the births per cent., or in each 100 of the population. It appears that the greatest number of births in proportion to the population, returned in any one year, was in Cattaraugus county, for 1825, being one birth to 18 living, or 5.27 per cent., or in each 100. The least number returned was in Queens county, for 1835, being 1 birth to 37 living, 2.67 per cent., or in each 100. The average for the whole State is as follows:

	In 1825.	In 1835.	In 1845.
Births in the whole State returned,	61,383	77,244	89,755
Persons living to one birth,.....	26	28	29
Births in each 100 persons living,	3.79	3.55	3.44

The number of births of each sex is specified in the census returns for each county. In these tables they are combined. The number of births of each sex, and the proportion of the sexes for each period, for the whole State, will appear from the following statement:

1825. Males,.....	31,514; as 51.34; or as 100.	; or as 105.50
Females,	29,869 to 48.66	to 94.77 to 100.
	<u>61,383</u>	<u>100.00</u>
	<u><u>61,383</u></u>	<u><u>100.00</u></u>
1835. Males,.....	39,839; as 51.57; or as 100.	; or as 106.50
Females,	37,405 to 48.43	to 93.89 to 100.
	<u>77,244</u>	<u>100.00</u>
	<u><u>77,244</u></u>	<u><u>100.00</u></u>
1845. Males,.....	46,817; as 52.16; or as 100.	; or as 109.03
Females,	42,938 to 47.84	to 91.71 to 100.
	<u>89,755</u>	<u>100.00</u>
	<u><u>89,755</u></u>	<u><u>100.00</u></u>

The difference in the per centage of the sexes was 2.68 in 1825, 3.14 in 1835, and 4.32 in 1845.

IV. *Marriages.* Table IV. exhibits, in parallel columns, the returns of the number of marriages in the several counties, for the years 1835 and 1845, and their relation to the population. No return for 1825 has been found. The heading of the returns for 1835 says, "Number of marriages where the female resided;" and it is presumed that the same rule was adopted in the other enumerations, though the heading in 1845 says, "Number of marriages in the county during the year preceding." Strictly enforced, this rule would exclude many marriages between parties who go out of their place of residence to be married. If such were the construction, any comparison between these returns of marriages and those of other places, would be fallacious. The greatest number of marriages returned in any one year, in proportion to the population, was in Westchester county, for 1845, being 1 marriage to 31 living, or 3.18 per cent., or to 100 living; the least number, in Queens county, for 1835, being 1 marriage to 251 living, or .39 per cent., or to 100 living.

The enumerators were directed, in each census, to obtain the number of married persons under 45 years of age, the number unmarried between 16 and 45 years, and the number unmarried under 16. This would include the whole female population under 45 years of age. The information thus solicited, if obtained correctly, would have been of importance. And it is presumed that it was designed to be a substitute for that obtained in other places, of the number of married, unmarried and widowed, at the different ages. How far the attempt was successful will appear from the following statement:

Classification of Females.	Number in each class.			Per centage of popu'n.		
	1825.	1835.	1845.	1825.	1835.	1845.
Married females under 45 years of age,....	200,481	283,230	230,216	12.40	13.02	8.83
Unmarried females between ages 16 and 45,	135,391	195,499	161,334	8.37	8.99	6.19
Unmarried females under 16 years of age,....	361,624	456,224	490,709	22.28	20.98	18.84
Marriages during preceding year,	11,553	15,535	27,783	.71	.71	1.06

It appears from this statement that the proportion of married females under 45 years of age was 12.40 per cent in 1825, and 8.83 per cent in 1845 ; that the unmarried females between 16 and 45, were 8.37 per cent in 1825, and 6.19 per cent in 1845 ; that the unmarried females under 16, were 22.32 per cent in 1825, and 18.84 per cent in 1845 ; and that the proportion of all the female persons under 45 years to the whole population was 43.05 per cent in 1825, and 33.86 per cent in 1845, showing a difference at the two periods, of 9.19 per cent. I have, however, shown from these returns that of the whole population, the proportion of females was greater in 1845 than in 1825, being as 100 to 96.43 in 1825, and as 100 to 98.61 in 1845. This is conclusive proof that the returns are inconsistent with each other, and cannot both be correct.

V. *Deaths.* Table V exhibits, in parallel columns for each county, an abstract of the returns of the number of deaths for 1825, 1835, and 1845 ; and their relation to the population. The greatest number of deaths returned in any one year in proportion to the population was in New-York county, in 1835, being 1 in 45 living, or 2.19 per cent, or to 100 living ; and the least number in Rockland county in 1835, being 1 in 160 living, or 62 per cent, or to 100 living. The aggregates for the whole States were as follows :

	In 1825.	In 1835.	In 1845
Deaths in the whole State were,.....	22,544	32,766	36,284
Persons living to 1 death were,.....	71	66	71
Per centages, or to 100 living, were,...	1.39	1.50	1.39

The proportion of the sexes for the whole State, were as follows :

1825. Males,.....	12,525 ; as 55.56 ; as 100,	as 125.01.
Females,....	10,019 to 44.44 ; to 79.99	to 100 ;
	<u>22,544</u>	<u>100.00</u>
1835. Males,.....	17,486 ; as 53.37 ; as 100,	as 114.43.
Females,....	15,280 to 46.63 ; to 87.38	to 100.
	<u>32,766</u>	<u>100.00</u>

1845. Males,.....	18,722 ; as 51.60 ; as 100,	as 106.60.
Females,....	17,562 to 48.40 ; to 93.80	to 100.
	<hr/> 36,282	<hr/> 100.00
	<hr/> <hr/>	<hr/> <hr/>

The difference between the sexes was 11.12 per cent in 1825 ; 6.74 per cent in 1835 ; and 3.20 per cent in 1845 ; showing a nearer approximation to equality in the last than in the previous periods.

VI. *Cities.* There are 9 incorporated cities in the State, and table VI gives the population ; and table VII gives the returns of the births, marriages, and deaths, on the same plan as tables before given relating to the counties. If these returns had been correct they would have shown important results. As they are, they only show the utility of correct tables.

VII. *Conclusion.* The result of this examination has led to the conclusion that these census returns are not reliable for accuracy. The design for obtaining them was excellent, but it was not carried out in truthfulness ; and the last attempt was the greatest failure. The same results have followed similar attempts elsewhere.

My own knowledge in these matters, strengthened by this examination, has led me to conclude that full and accurate returns of this kind cannot be obtained by personal inquiry, as these were obtained, after the expiration of a year. Owing to the locomotive habits of our people, causing frequent removals from one place to another, and from other causes, many births, marriages and deaths, will escape notice, and render the returns defective. The only effectual mode of preventing errors in matters of this kind is such a plan of public registration as will secure the record of every birth, every marriage, and every death, with all the important facts in relation to each, *at or near the time in which they occur.* Such a system of registration should be the foundation of all sanitary laws. Without it no accurate information concerning the population, or its sanitary condition can be ascertained. I have been informed that this subject may come up for consideration in your State this season. If so, these tables may afford some useful suggestions.

Some persons have desired that an attempt should be made, in the census of the United States for this year, to obtain the number of

deaths. The results here presented will show the probable value of the information which might be obtained in this way. I have doubted the expediency of such a measure for two reasons; one because the information when obtained could not be relied upon for accuracy; and another because, if it could be accurately obtained for the year 1849, (that being a very sickly year) it would give an unfair exhibition of the average sanitary condition of the country. A strong desire was, however, expressed by the Census board of Washington, that measures should be provided for obtaining the information; and a separate schedule was prepared, at their request, for the purpose.

It is hoped that this brief synopsis of the facts in your census tables, relating to the vital statistics of your State, will afford you some gratification. There are many points suggested by the investigation, which it might be profitable to discuss at length; but, as I have already said, it has not been my design to enter into such a discussion at this time, but merely to state the facts in a simple connected form, that they may serve as matters of reference, whenever the subject should come up for discussion. For this purpose I hope you will not consider the labor as entirely useless.

I am, with much respect,

Your obedient servant,

LEMUEL SHATTUCK.

TABLE I.

Exhibiting the number of Inhabitants in the several counties, enumerated in the National censuses of 1820, 1830, and 1840; and in the State census of 1825, 1835, and 1845.

COUNTIES.	Incorporated.	1820.	1825.	1830.	1835.	1840.	1845.
Albany,	November 1, 1683,	38, 116	42, 821	53, 560	59, 762	68, 593	77, 268
Allegany,	April 7, 1806,	9, 330	18, 164	26, 218	35, 214	40, 975	40, 084
Broome,	March 26, 1806, ..	14, 343	13, 893	17, 582	20, 190	22, 338	25, 808
Cattaraugus,	March 11, 1808, ..	4, 090	8, 643	16, 726	24, 986	28, 872	30, 169
Cayuga,	March 8, 1799,	38, 897	42, 743	47, 947	49, 202	50, 338	49, 663
Chautauque,	March 11, 1808, ..	12, 568	20, 639	34, 657	44, 869	47, 975	46, 548
Chemung, .....	.....	.....	.....	.....	.....	20, 732	23, 689
Chenango,	March 15, 1798, ..	31, 215	34, 215	37, 404	40, 762	40, 785	39, 900
Clinton,	March 7, 1788, ..	12, 070	14, 486	19, 394	20, 742	28, 157	31, 278
Columbia,	April 4, 1786,	38, 330	37, 970	39, 952	40, 746	43, 252	41, 976
Cortland,	April 8, 1808,	16, 507	20, 271	23, 693	24, 168	28, 557	25, 081
Delaware,	March 10, 1797, ...	26, 587	29, 565	32, 933	34, 192	35, 396	36, 990
Dutchess,	November 1, 1683,	46, 615	46, 698	50, 926	50, 704	52, 397	55, 124
Erie,	April 2, 1821, .....	.....	24, 316	35, 710	57, 594	62, 465	78, 635
Essex,	March 1, 1799, ...	12, 811	15, 993	19, 387	20, 699	23, 634	25, 102
Franklin,	March 11, 1808, ..	4, 439	7, 978	11, 312	12, 501	16, 518	18, 692
Fulton, .....	.....	.....	.....	.....	.....	18, 049	18, 579
Genesee,	March 30, 1802, ..	58, 093	40, 905	51, 992	58, 588	59, 587	28, 845
Greene,	March 25, 1800, ..	22, 996	26, 229	29, 525	30, 173	30, 446	31, 957
Hamilton,	April 12, 1816,	1, 251	.....	1, 324	.....	1, 907	1, 882

Herkimer,	31,017	33,040	35,869	36,201	37,477	37,424
Jefferson,	32,952	41,650	48,515	53,088	60,984	64,999
Kings,	11,187	14,679	20,537	32,057	47,613	78,691
Lewis,	9,227	11,669	14,958	16,093	17,830	20,218
Livingston, .....	.....	23,860	27,719	31,092	35,140	33,193
Madison,	32,208	35,646	39,037	41,741	40,008	40,987
Monroe, .....	.....	39,108	49,862	58,085	64,902	70,899
Montgomery,	37,569	40,902	43,595	48,359	35,818	29,643
New-York,	123,706	166,086	202,589	270,089	312,710	371,223
Niagara,	22,990	14,069	18,485	26,490	31,132	34,550
Oneida,	50,997	57,847	71,326	77,518	85,310	84,776
Onondaga,	41,467	48,435	58,974	60,908	67,911	70,175
Ontario,	88,267	37,422	40,167	40,870	43,501	42,592
Orange,	41,213	41,732	45,372	45,096	50,739	52,227
Orleans, .....	.....	14,460	18,773	22,893	25,127	25,845
Oswego,	12,374	17,875	27,104	38,245	43,619	48,441
Otsego,	44,856	47,898	51,372	50,428	49,628	50,509
Putnam,	11,268	11,866	12,701	11,551	12,825	13,258
Queens,	21,519	20,331	22,276	25,130	30,324	31,849
Rensselaer,	40,153	44,065	49,572	55,515	60,259	62,338
Richmond,	6,135	5,932	7,084	7,691	10,965	13,673
Rockland,	8,837	8,016	9,388	9,696	11,975	13,741
Saratoga,	36,052	36,295	38,616	38,012	40,553	41,477
Schenectady,	13,081	12,876	12,334	16,230	17,387	16,630
Schoharie,	23,154	25,926	27,910	28,508	32,358	32,488
Seneca,	23,619	20,169	21,031	22,627	24,874	24,972
St. Lawrence,	16,037	27,595	36,351	42,047	56,706	62,354
Steuben,	21,989	25,004	33,975	41,435	46,138	51,679

TABLE I.—(CONTINUED.)

COUNTIES.	Incorporated.	1820.	1825.	1830.	1835.	1840.	1845.
Suffolk,	November 1, 1683,	24,272	23,695	26,780	28,274	32,469	34,579
Sullivan,	March 27, 1809, ..	8,900	10,373	12,372	13,755	15,629	18,727
Tioga,	February 16, 1794,	16,971	19,951	27,704	33,999	20,527	22,456
Tompkins,	April 7, 1817,	20,681	32,908	36,545	38,008	37,948	38,168
Ulster,	November 1, 1683,	30,934	32,015	36,551	39,960	45,832	48,907
Warren,	March 12, 1813, ..	9,453	10,806	11,796	12,034	13,422	14,908
Washington,	March 12, 1772, ..	38,831	39,280	42,635	39,326	41,080	40,554
Wayne,	April 11, 1823, ....	.....	26,761	33,555	37,788	42,057	42,515
Westchester,	November 1, 1683,	32,638	33,131	36,456	38,790	48,686	47,578
Wyoming, .....	.....	.....	.....	.....	.....	.....	27,205
Yates,	February 5, 1823, ..	.....	17,455	19,019	19,796	20,444	20,777
Total,					2,174,517		2,604,495

TABLE II.

Exhibiting the Area of each county in square miles and square acres; and the number of Inhabitants to the square mile in 1825, 1835, and 1845.

COUNTIES.	Area.		Inhabitants to square mile.		
	Square miles.	Square acres.	1825.	1835.	1845.
Albany,	515	329,500	83.1	116.0	150.1
Allegany,	1,185	755,380	15.3	29.7	33.9
Broome,	627	401,404	22.1	32.2	41.1
Cattaraugus,	1,232	788,305	70.1	20.2	24.4
Cayuga,	648	414,678	65.9	75.9	76.7
Chautauque,	1,017	650,620	20.2	44.1	45.7
Chemung,	530	336,000	.....	.....	44.6
Chenango,	800	514,800	42.7	50.9	49.8
Clinton,	932	596,800	15.5	22.2	33.5
Columbia,	624	399,500	60.8	65.2	67.2
Cortland,	500	320,000	40.5	48.3	50.1
Delaware,	1,459	933,500	20.2	23.4	25.3
Dutchess,	765	489,700	61.0	66.2	72.0
Erie,	876	561,000	27.0	65.7	89.7
Essex,	1,779	1,138,500	8.9	18.6	14.1
Franklin,	1,527	977,388	5.2	8.1	12.2
Fulton,	500	320,500	.....	.....	37.1
Genesee,	437	302,720	93.6	134.0	66.0
Greene,	583	732,933	44.9	51.7	54.8

TABLE II.—(CONTINUED.)

COUNTIES.	Area.		Inhabitants to square mile.		
	Square miles.	Square acres.	1825.	1835.	1845.
Hamilton,	1,064	680,866	.....	.....	1.7
Herkimer,	1,370	887,000	24.1	26.4	27.2
Jefferson,	1,125	720,000	37.0	47.1	57.7
Kings,	76	84,800	193.1	421.8	1,035.4
Lewis,	1,122	718,265	10.4	14.3	18.0
Livingston,	509	325,760	46.8	61.0	65.2
Madison,	582	372,000	61.2	78.7	70.4
Monroe,	607	388,900	64.4	95.6	116.0
Montgomery,	356	221,000	114.0	135.0	83.2
New-York,	22	14,080	7,549.3	12,285.8	16,873.7
Niagara,	484	309,500	29.0	54.7	71.3
Oneida,	1,101	704,740	52.5	70.4	76.9
Onondaga,	711	455,100	68.1	85.6	98.6
Ontario,	617	395,107	60.6	66.2	69.0
Orange,	760	486,500	54.9	59.3	68.7
Orleans,	372	238,154	30.8	61.5	69.4
Oswego,	823	580,978	21.7	46.4	58.8
Otsego,	892	570,900	53.8	56.5	56.6
Putnam,	216	138,300	54.8	53.4	61.3
Queens,	396	253,000	61.3	63.4	90.4
Rensselaer,	626	400,700	70.2	88.6	99.5
Richmond,	63	40,300	95.5	122.0	217.0

Rockland,	172	110,500	46.6	56.3	79.8
Saratoga,	800	511,000	45.3	47.5	51.8
Schenectady,	200	125,000	64.3	81.1	83.1
Schoharie,	621	397,000	41.7	45.9	52.3
Seneca,	308	197,550	65.4	73.4	81.0
St. Lawrence,	2,717	1,673,500	10.1	15.4	22.9
Steuben,	1,400	897,000	17.8	29.5	36.9
Suffolk,	973	626,000	24.3	29.0	35.5
Sullivan,	919	587,000	11.2	14.9	20.3
Tioga,	500	320,500	39.9	67.9	44.9
Tompkins,	580	371,400	56.9	65.5	65.8
Ulster,	1,096	701,500	29.2	36.4	44.6
Warren,	912	583,500	11.9	13.1	16.3
Washington,	807	516,500	48.6	48.7	52.2
Wayne,	572	375,576	46.0	66.0	74.3
Westchester,	470	290,527	70.4	82.5	101.2
Wyoming,	500	320,000	.....	.....	54.4
Yates,	320	204,444	54.5	61.8	64.9

TABLE III

Exhibiting the number of Births in the several counties returned in the State censuses of 1825, 1835, and 1845; and their relation to the population.

COUNTIES.	Births returned.			Living to one birth.			Births per cent.		
	1825.	1835.	1845.	1825.	1835.	1845.	1825.	1835.	1845.
Albany,	1,585	2,289	2,725	27	26	28	3.70	3.83	3.52
Allegany,	938	1,452	1,382	19	24	29	5.16	4.12	3.44
Broome,	624	699	889	22	28	29	4.49	3.46	3.44
Cattaraugus,	456	1,117	1,098	18	22	27	5.27	4.47	3.63
Cayuga,	1,718	1,590	1,592	24	30	31	4.01	3.23	3.20
Chautauque,	995	1,725	1,482	20	26	31	4.82	3.84	3.18
Chemung, .....	.....	.....	888	....	....	26	....	....	3.75
Chenango,	1,354	1,440	1,278	25	28	30	3.95	3.53	3.20
Clinton,	566	861	1,349	25	24	23	3.90	4.15	4.31
Columbia,	1,160	1,349	1,287	32	30	32	3.05	3.31	3.06
Cortland,	808	868	749	25	27	33	3.98	3.59	2.98
Delaware,	1,286	1,305	1,269	22	26	28	4.34	3.81	3.43
Dutchess,	1,560	1,543	1,707	29	32	32	3.34	3.04	3.09
Erie,	1,091	2,056	2,867	22	28	27	4.48	3.56	3.64
Essex,	700	769	975	22	26	25	4.37	3.71	3.88
Franklin,	356	466	785	22	26	23	4.44	3.72	4.19
Fulton, .....	.....	.....	645	....	....	28	....	....	3.47
Genesee,	1,700	2,047	807	24	28	35	4.15	3.49	3.14
Greene,	980	1,094	1,103	26	27	28	3.73	3.62	3.45

Hamilton,	69	...	...	...	27	...	3.66
Herkimer,	1,174	1,225	25	29	31	3.87	3.13
Jefferson,	2,290	2,085	22	25	28	4.48	3.52
Kings,	3,176	1,058	33	30	24	2.96	4.03
Lewis,	710	533	25	30	28	3.97	3.51
Livingston,	1,102	1,060	26	29	30	3.81	3.31
Madison,	1,266	1,495	27	27	32	3.68	3.08
Monroe,	2,482	1,991	23	29	28	4.25	3.35
Montgomery,	1,027	1,724	26	28	28	3.72	3.46
New-York,	13,234	8,960	36	30	28	2.72	3.56
Niagara,	1,222	1,059	20	25	28	4.84	3.50
Oneida,	2,776	2,633	28	29	30	3.49	3.27
Onondaga,	2,375	2,336	24	26	29	4.04	3.38
Ontario,	1,271	1,354	26	30	33	3.81	2.98
Orange,	1,733	1,582	27	28	30	3.63	3.31
Orleans,	835	852	18	26	30	5.52	3.23
Oswego,	1,738	1,561	23	24	27	4.34	3.58
Otsego,	1,509	1,679	26	30	33	3.78	2.98
Putnam,	458	374	28	30	28	3.50	3.45
Queens,	980	671	34	37	32	2.91	3.77
Rensselaer,	2,355	2,105	27	26	26	3.62	3.77
Richmond,	395	270	35	28	34	2.79	2.88
Rockland,	445	282	33	34	30	2.98	3.23
Saratoga,	1,247	1,198	29	31	33	3.41	3.00
Schenectady,	542	559	26	29	30	3.78	3.25
Schoharie,	1,126	1,092	23	26	28	4.29	3.46
Seneca,	873	840	23	26	28	4.20	3.49
St. Lawrence,	2,406	1,653	23	25	25	4.33	3.85

TABLE III.—(CONTINUED.)

COUNTIES.	Births returned.		Living to one birth.		Births per cent.		
	1825.	1835.	1845.	1825.	1835.	1845.	1845.
Steuben,	1,405	1,740	1,990	17	23	5.61	2.19
Suffolk,	699	784	1,103	33	36	2.94	2.77
Sullivan,	470	609	784	22	22	4.53	4.42
Tioga,	846	1,344	833	23	25	4.24	3.95
Tompkins,	1,358	1,384	1,127	24	27	4.12	3.64
Ulster,	1,247	1,385	1,856	25	28	3.89	3.46
Warren,	522	459	571	20	24	4.78	4.15
Washington,	1,381	1,431	1,270	28	27	3.51	3.63
Wayne,	1,152	1,375	1,427	23	27	4.60	3.63
Westchester,	941	1,080	1,518	35	35	2.84	2.78
Wyoming, .....	....	....	855	....	....	....	....
Yates,	608	749	728	28	26	3.47	3.78
Whole State,	61,383	77,244	89,755	26	28	3.79	3.55
							3.44

TABLE IA

TABLE IV

Exhibiting the number of Marriages in the several counties, returned in the censuses of 1835, and 1845 ; and their relation to the population.

COUNTIES.	Marriages returned.		Living to one marriage.		Marriages per cent.	
	1835.	1845.	1835.	1845.	1835.	1845.
Albany,.....	425	720	140	107	.71	.93
Allegany,.....	233	522	151	76	.66	1.30
Broome,.....	103	289	196	89	.51	1.11
Cattaraugus,.....	153	377	163	80	.60	1.24
Cayuga,.....	358	590	137	79	.72	1.26
Chautauque,.....	316	546	141	85	.70	1.17
Chemung,.....	.....	277	....	85	....	1.16
Chenango,.....	292	449	139	88	.71	1.12
Clinton,.....	109	294	190	105	.52	.93
Columbia,.....	231	352	176	119	.56	.83
Cortland,.....	181	313	133	80	.74	1.24
Delaware,.....	279	358	122	103	.81	.96
Dutchess,.....	315	551	160	100	.62	.99
Erie,.....	402	930	143	84	.69	1.18
Essex,.....	164	256	126	98	.79	1.01
Franklin,.....	89	193	140	96	.71	1.03
Fulton,.....	.....	224	....	82	....	1.20
Genesee,.....	427	364	137	79	.72	1.26
Greene,.....	204	282	147	113	.67	.88

TABLE IV.—(CONTINUED.)

COUNTIES.	Marriages returned.		Living to one marriage.		Marriages per cent.	
	1835.	1845.	1835.	1845.	1835.	1845.
Hamilton, .....	.....	15	....	125	....	.79
Herkimer,	226	405	160	92	.62	1.08
Jefferson,	395	749	134	86	.74	1.15
Kings,	174	626	184	125	.54	.79
Lewis,	123	212	130	95	.76	1.04
Livingston,	185	375	168	88	.59	1.12
Madison,	344	413	121	99	.82	1.00
Monroe,	431	814	134	87	.74	1.14
Montgomery,	343	321	140	92	.70	1.08
New-York,	1,990	2,556	135	145	.73	.68
Niagara,	166	381	159	90	.62	1.10
Oneida,	574	887	135	95	.74	1.04
Onondaga,	516	718	118	97	.84	1.02
Ontario,	357	503	114	84	.87	1.18
Orange,	395	444	114	117	.87	.85
Orleans,	143	304	160	85	.62	1.17
Oswego,	257	527	148	91	.67	1.08
Otsego,	395	623	127	81	.78	1.23
Putnam,	71	153	162	86	.61	1.15
Queens,	100	273	251	116	.39	.85
Rensselaer,	456	621	121	100	.82	.99
Richmond,	71	74	108	184	.92	.54

Rockland,	50	132	193	104	.51	.96
Saratoga,	288	405	131	102	.75	.97
Schenectady,	139	187	116	88	.85	1.12
Schoharie,	219	355	130	91	.76	1.09
Seneca,	154	296	146	84	.68	1.18
St. Lawrence,	297	656	141	95	.70	1.05
Steuben,	322	725	128	71	.77	1.40
Suffolk,	196	436	144	79	.69	1.26
Sullivan,	85	229	161	81	.61	1.22
Tioga,	249	293	136	76	.73	1.30
Tompkins,	283	410	134	93	.74	1.07
Ulster,	265	485	150	100	.66	.99
Warren,	82	158	146	94	.68	1.05
Washington,	288	423	136	95	.73	1.04
Wayne,	246	628	153	67	.65	1.47
Westchester,	228	1,517	170	31	.58	3.18
Wyoming, .....	.....	320	....	85	....	1.17
Yates,	151	247	131	84	.76	1.18
Whole State,	15,535	27,783	139	94	.71	1.06

TABLE V.

Exhibiting the number of Deaths in the several counties, returned in the censuses of 1825, 1835, and 1845 ; and their relation to the population.

COUNTIES.	Deaths returned.			Living to one death.			Deaths per cent.		
	1825.	1835.	1845.	1825.	1835.	1845.	1825.	1835.	1845.
Albany,.....	788	1,161	1,322	54	51	58	1.84	1.94	1.71
Allegany,.....	273	456	497	66	77	80	1.50	1.29	1.23
Broome,.....	158	235	320	87	85	80	1.13	1.16	1.23
Cattaraugus,.....	104	326	341	83	76	88	1.20	1.30	1.13
Cayuga,.....	518	713	744	82	69	66	1.21	1.44	1.49
Chautauque,.....	240	571	586	85	78	79	1.16	1.27	1.25
Chemung,.....	....	....	276	....	....	85	....	....	1.14
Chenango,.....	520	571	461	65	71	86	1.51	1.40	1.63
Clinton,.....	163	264	382	88	74	81	1.13	1.27	1.22
Columbia,.....	429	505	528	88	80	79	1.13	1.23	1.25
Cortland,.....	225	295	320	90	81	78	1.10	1.22	1.27
Delaware,.....	387	533	479	76	64	77	1.30	1.55	1.29
Dutchess,.....	602	760	727	77	66	75	1.29	1.49	1.31
Erie,.....	370	921	1,114	65	62	70	1.52	1.59	1.41
Essex,.....	210	256	324	76	80	77	1.31	1.23	1.29
Franklin,.....	98	167	282	81	74	66	1.22	1.33	1.50
Fulton,.....	....	....	287	....	....	64	....	....	1.54
Genesee,.....	542	715	283	75	81	101	1.32	1.22	.98
Greene,.....	275	454	364	95	66	87	1.04	1.50	1.13

Hamilton, .....	....	20	....	...	94	....	....	1.06
Herkimer,	421	484	458	78	77	1.27	1.26	1.29
Jefferson,	496	784	733	83	82	1.19	1.38	1.20
Kings,	226	1,393	661	64	56	1.53	2.06	1.77
Lewis,	114	239	194	102	84	.97	1.20	1.18
Livingston,	292	487	364	81	68	1.22	1.17	1.46
Madison,	399	596	496	89	68	1.11	1.18	1.45
Monroe,	671	877	852	64	80	1.56	1.46	1.23
Montgomery,	489	487	639	83	60	1.19	1.32	1.64
New-York,	3,239	6,293	5,925	51	58	1.95	2.19	1.69
Niagara,	280	404	344	50	85	1.91	1.29	1.16
Oneida,	700	1,261	1,112	82	67	1.21	1.43	1.48
Onondaga,	608	967	942	79	72	1.25	1.54	1.37
Ontario,	554	597	542	67	71	1.48	1.32	1.40
Orange,	557	644	711	74	81	1.33	1.57	1.23
Orleans,	314	293	288	46	88	2.17	1.25	1.13
Oswego,	259	603	546	69	80	1.44	1.42	1.24
Otsego,	582	708	668	82	71	1.21	1.32	1.40
Putnam,	138	116	120	85	114	1.16	1.04	.87
Queens,	299	416	327	67	76	1.47	1.30	1.30
Rensselaer,	662	825	968	66	75	1.50	1.74	1.32
Richmond,	94	174	114	63	78	1.58	1.48	1.27
Rockland,	50	171	117	160	80	.62	1.20	1.24
Saratoga,	473	655	535	76	63	1.30	1.40	1.57
Schenectady,	175	284	310	73	58	1.35	1.91	1.70
Schoharie,	360	422	380	72	76	1.38	1.33	1.29
Seneca,	276	371	318	73	67	1.36	1.40	1.48
St. Lawrence,	300	720	589	91	86	1.08	1.40	1.15

TABLE V.—(CONTINUED.)

COUNTIES.	Deaths returned.			Living to one death.			Deaths per cent.		
	1825.	1835.	1845.	1825.	1835.	1845.	1825.	1835.	1845.
Steuben,	438	560	719	57	73	71	1.75	1.35	1.39
Suffolk,	330	448	474	71	63	72	1.39	1.58	1.37
Sullivan,	124	161	212	83	85	88	1.19	1.17	1.13
Tioga,	207	418	225	96	81	99	1.03	1.22	1.00
Tompkins,	405	489	438	81	77	87	1.23	1.29	1.14
Ulster,	434	531	684	73	75	71	1.35	1.32	1.39
Warren,	151	178	226	72	61	65	1.38	1.61	1.51
Washington,	530	631	531	74	62	76	1.34	1.60	1.30
Wayne,	488	503	650	54	75	65	1.82	1.33	1.52
Westchester,	391	420	597	84	92	79	1.18	1.08	1.25
Wyoming, .....	....	....	320	....	....	82	....	....	1.20
Yates,	176	281	341	99	70	86	1.00	1.44	1.11
Whole State,	22,544	32,766	36,284	71	66	71	1.39	1.50	1.39

TABLE VI

Exhibiting the Population of the several Cities in the State in 1820, 1830, and 1840; and in 1825, 1835, and 1845.

CITIES.	Incorporated.	1820.	1825.	1830.	1835.	1840.	1845.
Albany,	1686,	12,630	15,971	24,238	28,109	33,721	41,139
Brooklyn,	April 8, 1834,	7,175	10,790	15,295	24,310	36,223	59,566
Buffalo,	April 20, 1832,	2,095	5,141	8,668	15,661	18,213	29,773
Hudson,	1785,	5,310	5,004	5,392	5,531	5,672	5,657
New-York,	November 1, 1683, ..	123,706	166,086	202,589	270,089	312,710	371,223
Rochester,	April 28, 1834, .....	.....	.....	9,269	14,404	20,191	25,265
Schenectady,	March 26, 1798,	3,939	4,068	4,268	6,272	6,748	6,555
Troy,	April 12, 1816,	5,264	7,859	11,556	16,959	19,334	21,709
Utica,	February 13, 1832, ..	2,972	5,040	8,323	10,183	12,782	12,190

Rochester, .....	....	112	238	....	128	106	....	.77	.94
Schenectady, .....	....	62	69	....	101	95	....	.99	1.05
Troy, .....	....	130	150	....	130	144	....	.76	.69
Utica, .....	....	84	139	....	121	87	....	.82	1.14
<i>Deaths.</i>									
Albany,	391	653	795	40	43	51	2.45	2.32	2.96
Brooklyn,	189	509	1,094	57	47	54	1.75	2.09	1.83
Buffalo, .....	....	295	437	....	53	58	....	1.86	1.47
Hudson,	63	53	81	79	104	69	1.23	.95	1.43
New-York,	3,239	5,925	6,293	51	45	58	1.95	2.19	1.79
Rochester, .....	....	290	333	....	49	75	....	2.01	1.31
Schenectady,	44	174	144	92	36	45	1.08	2.77	2.19
Troy,	136	356	314	57	47	69	1.74	2.09	1.44
Utica,	66	210	208	76	48	58	1.30	2.06	1.70